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OM nucleic - nucleic search, using sw model

Run on: March 9, 2002, 01:07:02 ; Search time 755.06 Seconds

(without alignments)
28.386 Million cell updates/sec

Title: US-09-851-670-17
Perfect score: 25
Sequence: 1 ctccaaacttggaaatcaccggtacaca 25

Scoring table: IDENTITY_NUC

Gapop 10.0 , Gapext 1.0

Searched: 930621 seqs, 428662619 residues

Total number of hits satisfying chosen parameters: 1026190

Minimum DB seq length: 0

Maximum DB seq length: 60

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

N_Geneseq_1101:*

1: /SIDS2/gcadata/geneseq/geneseq/NA1980.DAT:*

2: /SIDS2/gcadata/geneseq/geneseq/NA1981.DAT:*

3: /SIDS2/gcadata/geneseq/geneseq/NA1982.DAT:*

4: /SIDS2/gcadata/geneseq/geneseq/NA1983.DAT:*

5: /SIDS2/gcadata/geneseq/geneseq/NA1984.DAT:*

6: /SIDS2/gcadata/geneseq/geneseq/NA1985.DAT:*

7: /SIDS2/gcadata/geneseq/geneseq/NA1986.DAT:*

8: /SIDS2/gcadata/geneseq/geneseq/NA1987.DAT:*

9: /SIDS2/gcadata/geneseq/geneseq/NA1988.DAT:*

10: /SIDS2/gcadata/geneseq/geneseq/NA1989.DAT:*

11: /SIDS2/gcadata/geneseq/geneseq/NA1990.DAT:*

12: /SIDS2/gcadata/geneseq/geneseq/NA1991.DAT:*

13: /SIDS2/gcadata/geneseq/geneseq/NA1992.DAT:*

14: /SIDS2/gcadata/geneseq/geneseq/NA1993.DAT:*

15: /SIDS2/gcadata/geneseq/geneseq/NA1994.DAT:*

16: /SIDS2/gcadata/geneseq/geneseq/NA1995.DAT:*

17: /SIDS2/gcadata/geneseq/geneseq/NA1996.DAT:*

18: /SIDS2/gcadata/geneseq/geneseq/NA1997.DAT:*

19: /SIDS2/gcadata/geneseq/geneseq/NA1998.DAT:*

20: /SIDS2/gcadata/geneseq/geneseq/NA1999.DAT:*

21: /SIDS2/gcadata/geneseq/geneseq/NA2000.DAT:*

22: /SIDS2/gcadata/geneseq/geneseq/NA2001.DAT:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

* Query Match Length DB ID Description

RESULT	1	
ID	AACB6088/C	
	AACB6088 standard; DNA; 25 BP.	
XX		
AC	AACB6088;	
XX		
DT		
XX		
DE		
XX		
KW	Transcription factor stress-related protein; TFSPP; stress-tolerance;	
KW	CABP-box like bind protein; CABP; DNA binding factor; DBP; primer;	
KW	homeo domain/leucine zipper; HDZ; zinc-finger; ZF; leucine zipper; Lzz;	
KW	CABP-1; CABP-2; DBP-1; DBP binding factor-1; CBP-1; HDZ-1; ZF-1;	
KW	Iz-1; transgenic plant; environmental stress; drought; salinity; PCR;	
KW	temperature; metal; chemical; pathogen; oxidative stress; amplify;	
KW	polymerase chain reaction; expressed sequence tag; EST; RACE PCR;	
KW	Physcomitrella patens; RT-PCR; ss.	
XX		
OS	Synthetic.	
PN	WO200145493-A2.	
XX		
PD	28-JUN-2001.	
XX		
PF	22-DEC-2000; 2000W0-US34972.	
XX		
PR	22-DEC-1999; 990S-0171745.	
XX		
(BADI) BASF PLANT SCI GMBH.		
XX		
PI	Costa e Silva OD, Van Thielen N, Chen R;	
XX		
DR	WPI; 2001-417953/44.	

Human map-related
Sequence of PCR pr
Truncated P-select
PCR primer for a c
Sequence of PCR pr
T-cell receptor al
5' PCR primer for
PCR primer BSRL us
Human prostate can
Prostate disease m
Nucleotide sequenc
Human aldolase A P
Neisseria species
T. brucei trypanos
Porcine circovirus
PCV1 ORF1 PCR prim
Primer SHF-15 for
Anti-human Fas ant

Murine Ig heavy c
Murine Ig heavy ch
Probe Seq ID No: 4
Primer used in met
Clone pD74-29 fro
Sequence of PCR pr
Human map-related

XX
PR 10-AUG-1995; 95US-0002136.
PT Novel transcription factor stress-related protein and nucleic acid
PT encoding the proteins, for producing transgenic plants having increased
PT tolerance to environmental stress including salinity, drought and
PT temperature -
XX
PS Example 9; Page 71; 115pp; English.

XX
CC The sequences given in AAC86082-101 are primers which were used to
CC amplify DNA's encoding transcription factor stress-related proteins
(TFSRP's) from Physcomitrella patens, as transgenes in transgenic
CC plants. TFSRP's are used for conferring stress-tolerance in plants.
CC The TFSRP's of the invention are selected from CAAI box like binding
CC factor (CABF), DNA binding factor (DBF), homeo domain/leucine zipper
CC (HDZ), zinc-finger (ZF) and leucine zipper (LZ), preferably CABF-1,
CC CBF-2, DBF-1, CBF/DRE binding factor-1 (CBF-1), HDZ-1, ZF-1, LZ-1,
CC or their homologs. The nucleic acid encoding the TFSRP's are useful
CC for producing transgenic plants, with increased tolerance to
CC environmental stress, including drought, salinity or temperature,
CC as compared to a wild type variety of the plant. TFSRP nucleic
CC acid is also useful for increasing the expression of a gene of
CC interest within a host cell as compared to a wild-type variety of a host
CC cell, by transforming the host cell with an expression vector comprising
CC the TFSRP coding nucleic acid and expressing TFSRP in the cell.
CC The environmental stress can also be metal, chemical, pathogenic and
CC oxidative stresses or their combinations. TFSRP nucleic acid molecules,
CC proteins, vectors and host cells are useful for identification and
CC mapping of genomes of *P. patens* and related organisms, identification
CC and localization of *P. patens* sequences of interest, evolutionary and
CC protein structural studies, determination of TFSRP regions required for
CC function, modulation of a TFSRP activity, metabolism of one or more
CC cell functions, transmembrane transport of one or more compounds and
CC stress resistance. TFSRP protein and nucleic acid molecules also serve
CC as markers for specific regions of the genome and to generate algae,
CC ciliates, plants, fungi or other microorganisms expressing mutated
CC TFSRP nucleic acid and protein molecules such that the stress tolerance
CC is improved.
XX Sequence 25 BP; 6 A; 3 C; 11 G; 5 T; 0 other;

Query Match 58.4%; Score 14.6; DB 22; Length 25;
Best Local Similarity 81.0%; Pred. No. 5.1e+02;
Matches 17; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 3 ccacttgtgaatcaggcgtca 23
Db 25 CCACCTTCGGCATGCCGTCGA 5

PR 10-AUG-1995; 95US-0002136.
XX PT Construct contg. promoter recognised by nucleus-encoded plastid RNA
PT polymerase - provides tissue specific expression of heterologous
PT genes for stable transformation of plastid(s) in higher plants
XX DR WPI; 1997-154257/14.

XX PS Example 1; Page 16; 55pp; English.
CC The present sequence, a primer for the PCR amplification of the
CC DNA of the upstream region of a tobacco 16S rDNA (nucleotides -201
CC to -1), is complementary to nucleotides 102761 to 102742 of the
CC tobacco plastid genome. The upstream region was used in the
CC development of a novel DNA construct for the stable transformation
CC of plastids in multicellular plants, which comprises a transforming
CC DNA having a target sequence for insertion into the plastid genome
CC by homologous recombination, a selectable marker gene providing a
CC selectable phenotype to cells containing transformed plastids, a
CC cloning site for inserting a gene of interest and a 5'-promoter
CC element that is recognised and transcribed by a nucleus encoded
CC plastid RNA polymerase. The construct provides plant tissue, e.g.
CC root, seed or meristem tissue, specific expression of a gene of
CC interest, e.g. a gene that makes roots toxic or repellent to
CC nematodes or controls oil production in seeds. The construct can
CC be used to transform a wider range of plant species than known
CC systems.
XX Sequence 28 BP; 7 A; 7 C; 6 G; 8 T; 0 other;

Query Match 58.4%; Score 14.6; DB 18; Length 28;
Best Local Similarity 81.0%; Pred. No. 5.1e+02;
Matches 17; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 2 tccacttgtgaatcaggctac 22
Db 24 TGCAACTATGAACTCGGTAC 4

RESULT 3

AAV76019

ID AAV76019 standard; DNA; 59 BP.

XX

AC AAV76019;

XX

DT 16-MAR-1999 (first entry)

XX

DE Staphylococcus aureus contig SEQ ID #1708.

XX

KW Computer readable medium; vaccine; *S.aureus* infection; immunodetection;

KW cellulitis; eyelid infection; food poisoning; osteomyelitis; therapy;

KW skin infection; surgical wound infection; scalded skin syndrome;

KW toxic shock syndrome; ds.

XX OS Staphylococcus aureus.

XX PN EP786519-A2.

XX PD 30-JUL-1997.

XX PF 07-JAN-1997; 97EP-0100117.

XX PR 05-JAN-1996; 96US-0009861.

XX PA (HUMA-) HUMAN GENOME SCI INC.

XX PI Barash SC, Choi GH, Dillon PJ, Fannon MR, Kunsch CA;

b
XX Rosen CA;

XX	DR	WPI: 1997-374922/35.
PT	PT	Polynucleotide(s) and proteins derived from <i>Staphylococcus aureus</i> -
CC	CC	stored on computer readable medium and used in the production of -
CC	CC	anti-S. aureus vaccines
PS	PS	Claim 1; Page 203; 321pp; English.
SQ	SQ	<p>This sequence represents one of 5191 <i>Staphylococcus aureus</i> DNA sequences of the invention. The DNA sequences are recorded on a computer readable medium, preferably selected from a floppy or hard disk, random access memory (RAM), read-only memory (ROM) or CD-ROM. Homology searches using the <i>S.aureus</i> DNA sequences allows putative functions to be assigned so that protein-encoding or regulatory regions of commercial, therapeutic or industrial importance can be obtained. Specifically, sequences which are likely to encode antigens have been identified and these polypeptides can be used in a vaccine composition against <i>S. aureus</i> infection. The polypeptides can also be used in a kit for the immuno-detection of <i>S. aureus</i> in a sample. <i>S. aureus</i> is implicated in numerous human diseases, including cellulitis, eyelid infections, food poisoning, osteomyelitis, skin and surgical wound infections, scalded skin syndrome, toxic shock syndrome, etc. Organisms transformed with the DNA sequences can be used for recombinant production of the polypeptides. The new DNA sequences (and their fragments) are useful as primers or probes for isolating homologues of any of the <i>S. aureus</i> DNA sequences contained on the computer readable medium.</p>
XX	XX	Sequence 59 BP; 20 A; 6 C; 6 G; 27 T; 0 other;
XX	XX	Query Match 58.4%; Score 14.6; DB 18; Length 59;
XX	XX	Best Local Similarity 81.0%; Pred. No. 5.5e+02; Matches 17; Conservative 0; Mismatches 4; Indels 0; Gaps 0;
OY	OY	5 aacttggaaatcccggtacaca 25
Db	Db	1 aaatttgaataactgtacaca 21
RESULT 4	RESULT 4	
AAQ81380	ID	58.4%; Score 14.6; DB 18; Length 59;
AAQ81380	ID	Best Local Similarity 81.0%; Pred. No. 5.5e+02; Matches 17; Conservative 0; Mismatches 4; Indels 0; Gaps 0;
AC	AC	
XX	XX	
AAQ81380;	AC	
XX	XX	
DT	DT	21-AUG-1995 (first entry)
XX	XX	
DE	DE	Forward primer for the IgG signal sequence.
KW	KW	PCR primer; IgG signal sequence; ss.
OS	OS	Synthetic.
XX	XX	
PN	PN	W09503408-A.
XX	XX	
PD	PD	02-FEB-1995.
XX	XX	
PF	PF	26-JUL-1994; 94WO-US08423.
XX	XX	
PR	PR	26-JUL-1993; 93US-0101624.
PR	PR	19-AUG-1993; 93US-0109393.
PR	PR	03-NOV-1993; 93US-0147773.
XX	XX	
PA	PA	(DAND) DANA FARBER CANCER INST INC.
PA	PA	(REPK) REPLICEN CORP.
XX	XX	
PT	PT	Freeman GJ, Gray GS, Greenfield E, Nadler LM;
XX	XX	
DR	DR	WPI: 1995-075236/10.
XX	XX	
PT	PT	Nucleic acids encoding CTLA4/CD28 counter receptor, B7-2 - useful for enhancing or suppressing T-cell mediated immune responses

PS Example; Page 84; 175pp; English.

XX PCR amplification was used to generate an immunoglobulin signal sequence suitable for secretion of the B7-2 Ig fusion protein from mammalian cells. The Ig signal sequence was prep. from a plasmid containg the murine IgG heavy chain gene using AAQ81380 as the forward primer and AAT9181 as the reverse PCR Primer. The forward PCR primer contain recognition site for BsaI and is homologous to sequences 5' to the initiating Met of the Ig signal sequence. The reverse primer is composed of sequences derived from the 5' end of the extracellular domain of hB7-2 and the 3' end of the Ig signal sequence.

CC CC

CC Query Match 57.6%; Score 14.4; DB 16; Length 39;

CC Best Local Similarity 75.0%; Pred. No. 6 7e+02;

CC Matches 18; Conservative 0; Mismatches 6; Indels 0; Gaps

CC QY 1 ctccaaacttggaaatcacggatcac 24

CC ||||| ||||| ||||| ||| |

CC Db 11 ctccaaacttggatcacagttctc 34

XX SQ Sequence 39 BP; 8 A; 12 C; 8 G; 11 T; 0 other;

XX RESULT 5

XX AAT9185

XX ID AAT9185 standard; DNA; 39 BP.

XX AC AAT9185;

XX DT 08-APR-1997 (first entry)

XX DE Murine IgG heavy chain signal sequence PCR primer 1.

XX KW CTL44; CD28; ligand; B7-2; B lymphocyte antigen; B-cell; costimulation; immunoglobulin; antibody; autoimmune disease; allergy; tumour; vaccine; graft versus host disease; T-cell; T lymphocyte; TH2 response; immunosuppressive; immunostimulant; therapy; IgG; polymerase chain reaction; PCR; primer; ss.

XX OS Synthetic.

XX PN WO9640915-A2.

XX PD 19-BEC-1996.

XX PF 06-JUN-1996; 96WO-US090952.

XX PR 07-JUN-1995; 95US-0479744.

XX PA (DAND) DANA FARBER CANCER INST INC.

XX PA (REPK) REPLICEN CORP.

XX PI Freeman GJ, Gray GS, Nadler LM;

XX DR WPI; 1997-077269/07.

XX PT DNA encoding a B7-2 fusion protein - used to enhance or down regulate B lymphocyte antigens

XX PS Example 7; Page 72; 171pp; English.

XX PCR amplification was used to generate an IgG signal sequence suitable for secretion of B7-2 Ig fusion protein from mammalian cells. Forward primer 1 (AAT9185) contains recognition sequences for BsaI and is homologous to sequences 5' to the initiating methionine of the murine IgG heavy chain signal sequence. Reverse primer 2 (AAT9186) is composed of sequences derived from the 5' end of the extracellular domain of human B-cell antigen B7-2 (see also AAT9181) and the 3' end of the Ig signal sequence. The PCR product (224 bp) is composed of BsaI sites followed by the Ig signal

CC sequence fused to the first 20 nucleotides of the coding sequence of the B7-2 extracellular domain. B7-2 Ig fusion proteins can be used to enhance or down-regulate B lymphocyte antigens.
 CC XX Sequence 39 BP; 8 A; 12 C; 8 G; 11 T; 0 other;
 SQ

Query Match 57.6%; Score 14.4; DB 18; Length 39;
 best Local Similarity 75.0%; Pred. No. 6.7e+02;
 Matches 18; Conservative 0; Mismatches 6; Indels 0; Gaps 0;
 QY 1 ctccaaacttggaaatcaccgttacac 24
 Db 11 ctccagttgagatcacgttctc 34

RESULT 6
 AAC84070 AAC84070 standard; DNA; 39 BP.
 ID XX AAC84070:
 AC XX AAC84070:
 DT 28-MAR-2001 (first entry)
 XX DE Murine Ig heavy chain gene signal sequence forward primer.
 XX KW Immunomodulator; fusion protein; human; murine; mouse; lymphocyte; CD28;
 KW antigen; extracellular domain; CtnA4; immunoglobulin constant region;
 KW immunogenicity; tumour; sarcoma; antigen presenting cell; macrophage;
 KW T cell-mediated immune response; transplantation; vaccination;
 KW PCR primer; fusion construct; ss.
 XX OS Mus sp.
 XX PN US6130316-A.
 PD 10-OCT-2000.
 PF 26-JUL-1994; 94US-0280757.
 PR 26-JUL-1993; 93US-0101624.
 PR 19-AUG-1993; 93US-0109393.
 PR 03-NOV-1993; 93US-0147773.

XX PA (DAND) DANA FARBER CANCER INST INC.
 PA (REPK) REPLICEN CORP.
 PT Freeman GJ, Nadler LM, Gray GS, Greenfield E;
 XX DR WPI: 2000-655681/63.

XX PT Nucleic acids and fusion proteins of CTLA4/CD28 ligands, useful for enhancing or suppressing T cell-mediated immune responses, especially during tissue, skin or organ transplantation, or in graft-versus-host disease -
 PT XX PS Example 7; Column 55; 83pp; English.

CC The invention relates to an isolated nucleic acid molecule encoding a fusion protein comprising a first nucleotide sequence encoding a first peptide, and a second nucleotide sequence encoding a second peptide. The first nucleotide sequences hybridizes in 6 X sodium chloride/sodium citrate (SSC) at 45 deg. C, followed by a wash in 0.2 X SSC at 50 deg. C to a portion of a nucleotide sequence which encodes a human or murine B lymphocyte antigen (B7-2) extracellular domain. The first peptide has the ability to bind CD28 or CTLA4. The first peptide has an amino acid sequence that is identical or at least 50% identical with the extracellular domain of a human B7-2 peptide (AB37085). The second peptide is especially an immunoglobulin constant region. Primers AAC84070-C84071 were used to PCR amplify the signal peptide sequence from the murine IgG gene. The signal peptide sequence was used to generate an hB7-2/Ig fusion construct. The nucleic acid molecules are useful in various expression vectors to direct synthesis of the corresponding

CC proteins or peptides in a variety of hosts, particularly eukaryotic cells, e.g. mammalian or insect cell culture. The nucleic acids are also useful for enhancing the immunogenicity of a mammalian cell, e.g. tumour cell (sarcoma) or an antigen presenting cell (macrophage). The fusion proteins or peptides are useful for enhancing or suppressing T cell-mediated immune responses, e.g. in situations of tissue, skin or organ transplantation, or in graft-versus-host disease. The proteins are also useful for enhancing the efficacy of vaccination against a variety of pathogens, and may also be used to upregulate an immune response against a particular pathogen during an infection or against a tumour in a tumour-bearing host.

Query Match 57.6%; Score 14.4; DB 21; Length 39;
 best Local Similarity 75.0%; Pred. No. 6.7e+02;
 Matches 18; Conservative 0; Mismatches 6; Indels 0; Gaps 0;
 QY 1 ctccaaacttggaaatcaccgttacac 24
 Db 11 ctccagttgagatcacgttctc 34

RESULT 7
 AAZ22294 AAZ22294 standard; DNA; 60 BP.
 ID XX AAZ22294:
 AC XX AAZ22294:
 DT 20-DEC-1999 (first entry)
 XX DE Probe Seq ID No: 4 of WO9950401.
 XX KW Intracellular gene expression; fluorescent; labeling; hybridization; screening; multi-probe DNA binding genome chip; probe; ss.
 XX OS Synthetic.
 XX PN WO9950401-A1.
 PD 07-OCT-1999.
 XX PF 26-MAR-1999; 99WO-JP01574.
 XX PR 27-MAR-1998; 98JP-0100096.
 XX PA (HELI-) HELIX RES INST.
 XX DR Muramatsu M, Wakao H, Wakao R, Yano K, Noguchi T, Suyama A;
 XX DR WPI: 1999-580760/49.
 PT Detection of gene expression with fluorescent labels, useful for PT screening genes and compounds capable of changing specific gene expression.
 XX PT Disclosure; Page 12; 26pp; Japanese.

XX PS The invention relates to a method for detecting a change in CC intracellular gene expression induced by treatment with a specific CC compound. The method comprises (a) isolating intracellular mRNAs from CC treated and untreated cells; (b) transcribing the isolated mRNAs to give CC cDNA groups; (c) applying different fluorescent labeling to the cDNA CC groups; (d) hybridizing the respective labeled cDNA groups with specific CC probes DNAs; and (e) measuring the difference in contents of cDNAs based CC on the generated fluorescence after hybridization. The method is useful CC for screening for a gene whose expression is changed by treatment with a CC specific compound, or screening for a compound capable of changing the CC expression of a specific gene. The method is convenient and efficient CC because labeling with different fluorescent substances can be incorporated to aid detection of changes, including the application of a CC multi-probe DNA binding genome chip. Sequences AAZ22291-96 represent

CC oligonucleotide probes used during the course of the invention.
 XX Sequence 60 BP; 13 A; 19 C; 15 G; 13 T; 0 other;

Query Match 57.6%; Score 14.4; DB 20; Length 60;
 Best Local Similarity 75.0%; Pred. No. 7e+02; Mismatches 0; Indels 6; Gaps 0;
 Matches 18; Conservative 0; Gaps 0;
 OY 1 ctccaaacttggaaatcaggcac 24
 ||||| | ||| ||||| ||||| |||||
 Db 4 ctccatccctggccatgttcac 27

RESULT 8

AAV84047 standard; DNA; 60 BP.

AAV84047;

XX DT 05-MAR-1999 (first entry)

DE Primer used in method for detecting changes in gene expression.

KW Gene expression; gene screening; foreign gene; gene selection;

KW primer; ss.

OS Synthetic.

XX PN WO9849282-A1.

XX PD 05-NOV-1998.

XX PF 27-APR-1998; 98WO-JP01935.

XX PR 28-APR-1997; 97JP-0111635.

XX PA (HELI-) HELIX RES INST.

XX PA Muramatsu M, Noguchi T, Suyama A, Yano K;

XX DR RPI; 1999-024052/02.

XX Effective detection of changes in gene expression in cells caused by
 PT transfer of gene, including synthetic, to be tested by extracting
 PT mRNAs then comparing with those from control in constitution - for
 PT screening gene expression affected by introduced foreign gene
 PT expression, suitable e.g. in genome chip method, to isolate genes
 PT with unknown functions for further studies

XX PS Example 1; Page 11; 23pp; English.

XX The present primer is used in the method of the invention. The method
 CC is for detecting changes in gene expression in cells caused by the
 CC expression of a gene to be tested. The method comprises extracting
 CC mRNAs from cells into which the gene to be tested has been transferred,
 CC and from control cells with no test gene inserted, followed by comparing
 CC these mRNAs in constitution. The method can be used to detect changes
 CC in gene expression in cells caused by introduced gene, for screen genes
 CC suffering from changes in their expression due to the presence of a
 XX foreign gene, in gene selection for study of its function.

SQ Sequence 60 BP; 13 A; 19 C; 15 G; 13 T; 0 other;

Query Match 57.6%; Score 14.4; DB 20; Length 60;
 Best Local Similarity 75.0%; Pred. No. 7e+02; Mismatches 0; Indels 6; Gaps 0;

Matches 18; Conservative 0; Gaps 0;

OY 1 ctccaaacttggaaatcaggcac 24
 ||||| | ||| ||||| ||||| |||||
 Db 4 ctccatccctggccatgttcac 27

RESULT 9
 XX AAT92137/C
 ID AAT92137 standard; DNA; 42 BP.

XX AC AAT92137;

XX DT 02-FEB-1998 (first entry)

XX DE Clone PPD74.29 from rolling circle replication on template z#42.
 XX KW Oligonucleotide; concatamer; library; annealing; ligation; double strand;
 circular template; primer; rolling circle replication; cloning; ss.

XX OS Synthetic.

XX FH Key repeat_unit 12.27 /*tag= a

XX FT PN US5648245-A.

XX PD 15-JUL-1997.

XX PF 09-MAY-1995; 95US-0437538.

XX PR 09-MAY-1995; 95US-0437538.

XX PA (CARN-) CARNegie INST WASHINGTON.

XX PA PT Fire A, Xu S;

XX PA DR WPI; 1997-372060/34.

XX PS Construction of oligo-nucleotide concatamer library - by rolling

XX PS circle replication of primer bridged circular template

XX PS Disclosure; Fig 5B; 21pp; English.

XX CC This sequence represents the monomeric repeat unit in clone PPD74.29,

CC resulting from rolling circle replication on the template zf#2 (AAT92137).

CC The template is formed by annealing the 5' and 3' regions of
 CC the template oligonucleotide to a separate oligonucleotide such that the
 CC 5' terminal nucleotide is annealed adjacent to the 3' nucleotide of the
 CC same molecule and these can be ligated to generate a single stranded
 CC circular template upon which an oligonucleotide primer is hybridised.

CC The annealed primer can then act as an initiation primer for a rolling
 CC circle mechanism of replication. This leads to the formation of a long
 CC single stranded concatamer of the template, including sequences of
 CC interest inserted between the ends of the template oligonucleotide. The
 CC single stranded concatamers are subsequently converted to double strands
 CC and the sequences of interest are cloned.

XX SQ Sequence 42 BP; 11 A; 10 C; 9 G; 12 T; 0 other;

Query Match 56.8%; Score 14.2; DB 18; Length 42;
 Best Local Similarity 84.2%; Pred. No. 8.4e+02; Mismatches 3; Indels 0; Gaps 0;

Matches 16; Conservative 0; Gaps 0;

OY 1 ctccaaacttggaaatcagg 19
 ||||| | ||| ||||| ||||| |||||
 Db 24 CTCAACTTGGAACTACGG 6

RESULT 10

XX AAQ43347

ID AAQ43347 standard; DNA; 50 BP.

XX AC AAQ43347;

XX DT 13-SEP-1993 (first entry)

XX	DE	Sequence of PCR primer EBI-3776 for the construction of
XX	DE	plasmid pADneoc(3xTRED16)BGluci.
KW	PCR;	primer; oligonucleotide.
OS	Synthetic.	
XX	PR	W09311257-A.
XX	PN	W09954500-A2.
XX	PD	28-OCT-1999.
XX	PF	21-APR-1999; 99WO-IB00822.
XX	PR	21-APR-1998; 98US-0082614.
XX	PR	23-NOV-1998; 98US-0109732.
XX	PA	(GEST) GENSET.
XX	PT	Novel biallelic markers used to construct a high density disequilibrium map of the human genome -
XX	PI	Cohen D, Blumenfeld M, Chumakov I;
XX	DR	WPI; 2000-013267/01.
XX	PS	WPI; 1993-197073/24.
PT	Screening substances that modulate receptor-dependent signal transmission path - using test cells transformed with reporter gene and regulatory sequence sensitive to inositol-1,4,5-tri:peptide and di:acyl:glycerine(s)	
PT	Example; Page 53; 170 pp; German.	
CC	padne contains the Neomycin-phosphotransferase gene under the control of SV40 early promoters and SV40 polyA signals. The promoter region of the thymidine kinase gene of herpes simplex virus type I flanked by two polycloning sites was introduced into plasmid PADNE. PADNE/BGluCI was constructed using oligos EBI-3182 and EBI-3184 to introduce the beta-globin promoter. PADNE (3TR) using nucleotide pairs EBI-3677/3671 and EBI-3672/3678. Plasmid PADNE(3xTRED16) contains 3 TRE elements separated from each other by 16 bases. It is constructed using EBI-3775 and complementary oligo EBI-3671, EBI-3776 and complementary oligo EBI-3777.	
SQ	sequence 50 BP; 15 A; 14 C; 8 G; 13 T; 0 other;	
Query Match	56.0%	Score 14; DB 14; Length 50;
Best Local Similarity	77.3%	Pred. No. 1.1e+03; Matches 17; Conservative 0; Mismatches 5; Indels 0; Gaps 0;
QY	4	caacttggaaacacgttacaca 25
DB	2	cggaccttggaaatcacggctaca 23
RESULT	11	AZ260275/C
ID	AZ266275	standard; DNA; 47 BP.
AC	AZ266275;	
XX	AC	
DT	10-SEP-2001	(first entry)
DE	Human map-related biallelic marker SEQ ID NO:622.	
XX	Human genome; biallelic marker; high density disequilibrium map; genomic map; haplotyping; phenotype; polymorphic base; genotyping; haplotyping; hybridisation; identification; characterisation; diagnosis; single nucleotide polymorphism; SNP; ds.	
XX	Homo sapiens.	
OS		
XX	Key variation	
XX	Location/Qualifiers replace(24,G)	
FT	/tag= a	
FT	/standard_name= "single nucleotide polymorphism"	
FT	/*tag= a	
FT	/standard_name= "single nucleotide polymorphism"	
FT	W09954500-A2.	
FT	28-OCT-1999.	
FT	21-APR-1999; 99WO-IB00822.	
FT	21-APR-1998; 98US-0082614.	
FT	23-NOV-1998; 98US-0109732.	
FT	(GEST) GENSET.	
FT	Novel biallelic markers used to construct a high density disequilibrium map of the human genome -	
FT	Claim 1; Page 363; 2745pp; English.	
FT	AZ26554 to AZ26558 represent human biallelic markers from the present invention, which contain a polymorphic base at position 24 of their nucleotide sequences. AZ26559 to AZ27740 represent amplification primers for the biallelic markers. The biallelic markers of the invention have a variety of uses: they can be used for high density mapping of the human genome, and in complex association studies and haplotyping studies which are useful in determining the genetic basis for disease states. Compositions and methods of the invention can also be useful for the identification of the targets for the development of pharmaceutical agents and diagnostic methods, as well as the pharmaceutical characterisation of the differential efficacies of effects from pharmaceutical agents acting on a disease as well as other treatments.	
FT	N.B. The SBO ID NOS 2852, 2913, 2974, 3035, 3096, 3157, 3227, 3297 and 3367, are not actually given a sequence in the Sequence Listing from the present invention.	
FT	Sequence 47 BP; 13 A; 13 C; 10 G; 11 T; 0 other;	
FT	Query Match	
FT	55.2%	
FT	Score 13.8; DB 21; Length 47;	
FT	Best Local Similarity	
FT	72.0%	
FT	Pred. No. 1.3e+03; Matches 18; Conservative 0; Mismatches 7; Indels 0; Gaps 0;	
FT	QY	
FT	1 ctcccaacttggaaatcacggttacaca 25	
FT	Db	
FT	35 ctttgttaccaggatcacggtaaac 11	
FT	RESULT	
FT	12	
FT	AZ266603/C	
FT	ID AZ266603 standard; DNA; 47 BP.	
FT	XX	
FT	AC	
FT	AZ266603;	
FT	XX	
FT	10-SEP-2001	
FT	(first entry)	
FT	DE	
FT	Human map-related biallelic marker SEQ ID NO:950.	
FT	XX	
FT	KW Human genome; biallelic marker; high density disequilibrium map;	
FT	KW genomic map; haplotyping; phenotype; polymorphic base; genotyping;	
FT	KW diagnosis; single nucleotide polymorphism; SNP; ds.	
FT	OS Homo sapiens.	
FT	Key variation	
FT	Location/Qualifiers replace(24,G)	
FT	/tag= a	
FT	/standard_name= "single nucleotide polymorphism"	

XX	W09954500-A2.
PD	28-OCT-1999.
XX	PT
PF	21-APR-1999; 99WO-IB00822.
XX	PI
PR	21-APR-1998; 98US-0082614.
XX	PT
PR	23-NOV-1998; 98US-0109732.
PA	PT
XX	Screening substances that modulate receptor-dependent signal gene and regulatory sequence sensitive to inositol-1,4,5-tri:peptide and di:acyl:glycerine(s)
PT	Example; Page 52; 170 pp; German.
XX	PS
DR	WPI; 2000-013267/01.
XX	PT
PT	Novel biallelic markers used to construct a high density disequilibrium map of the human genome
XX	Claim 1; Page 433; 2745pp; English.
XX	AAZ65654 to AAZ6578 represent human biallelic markers from the present invention, which contain a polymorphic base at position 24 of their nucleotide sequences. AAZ6979 to AAZ7440 represent amplification primers for the biallelic markers. The biallelic markers of the invention have a variety of uses; they can be used for high density mapping of the human genome, and in complex association studies and haplotyping studies which are useful in determining the genetic basis for disease states. Compositions and methods of the invention can also be useful for the identification of the targets for the development of pharmaceutical agents and diagnostic methods, as well as the characterisation of the differential efficacious responses to and side effects from pharmaceutical agents acting on a disease as well as other treatment.
CC	N.B. The SEQ ID NOS 2852, 2913, 2974, 3035, 3096, 3157, 3227, 3297 and 3367, are not actually given a sequence in the Sequence Listing from the present invention.
XX	Sequence 47 BP; 7 A; 9 C; 14 G; 17 T; 0 other;
SQ	Query Match 55.2%; Score 13.8; DB 21; Length 47; Best Local Similarity 72.0%; Pred. No. 1.3e+03; Matches 18; Conservative 0; Mismatches 7; Indels 0; Gaps 0;
Qy	1 ctccaaacttggatcacgtacaca 25
Db	37 CGCCAAACAGGAATCCTGATAGACA 13
XX	RESULT 13
AAQ43346/C	AAQ43346 standard; DNA; 56 BP.
ID	AAQ43346;
AC	AAQ43346;
XX	DT 13-SEP-1993 (first entry)
XX	DE Sequence of PCR primer EBI-3775 for the construction of plasmid pADNEc(3xTRED16)BGlci.
XX	KW PCR; primer; oligonucleotide.
XX	OS Synthetic.
XX	FN (NEXS-) NEXSTAR PHARM INC.
PA	(BOEH) BOEHRINGER INGELHEIM INT GMHH.
XX	PT Czernilofsky AP, Himmller A, Stratowa C, Weyer U; Lamche H, Schaefer R;
XX	PI
DR	WPI; 1993-197073/24.
XX	PT
PT	Transmission path - using test cells transformed with reporter gene and regulatory sequence sensitive to inositol-1,4,5-tri:peptide and di:acyl:glycerine(s)
XX	PS
CC	PAdeo contains the Neomycin-phosphotransferase gene under the control of SV40 early promoters and SV40 polyA signals. The promoter region of the thymidine kinase gene of herpes simplex virus type I flanked by two polycloning sites was introduced into plasmid PAdeo. PAdeoBGlci was constructed using oligos EBI-3182 and EBI-3184 to introduce the beta-globin promoter. PAdeo(3xTRE) BGlci contains three TPA responsive elements (TREs) constructed using nucleotide pairs EBI-3677/3671 and EBI-3672/3678. Plasmid PAdeo(3xTRED16) contains 3 TRE elements separated from each other by 16 bases. It is constructed using EBI-3755 and complementary oligo EBI-3671, EBI-3776 and complementary oligo EBI-3777.
CC	XX Sequence 56 BP; 14 A; 13 C; 16 G; 13 T; 0 other;
SQ	Query Match 55.2%; Score 13.8; DB 14; Length 56; Best Local Similarity 72.0%; Pred. No. 1.1e+03; Matches 18; Conservative 0; Mismatches 7; Indels 0; Gaps 0;
Qy	1 ctccaaacttggatcacgtacaca 25
Db	51 CACTAAGCTGATCACGGTCATACA 27
XX	RESULT 14
AA57993	AA57993 standard; RNA; 58 BP.
ID	AA57993;
AC	AA57993;
XX	DT 01-DEC-1997 (first entry)
XX	DE Truncated P-selectin family 5 SELEX ligand PF411.
KW	Identification; ligand; lectin; SELEX; wheat germ agglutinin; template; Systematic Evolution of Ligands by Exponential enrichment; amplification; primer; PCR; polymerase chain reaction; peritoneal inflammation; ss; diabetes; lymphocyte trafficking disorder; glomerulonephritis; arthritis.
XX	OS Synthetic.
XX	FN
FT	Key modified_base Location/Qualifiers
FT	1..58 /*tag= a
FT	/mod_base= all C bases are 2' Fluoro-cytosine
FT	/mod_base= all U bases are 2' Fluoro-uracil
PN	W0964703-A1.
XX	PD 19-DEC-1996.
XX	PP 05-JUN-1996; 96WO-US09455.
XX	PR 07-JUN-1995; 95US-0479724.
PR	07-JUN-1995; 95US-0472255.
PR	07-JUN-1995; 95US-0472256.
PR	07-JUN-1995; 95US-0477829.
XX	PA (NEXS-) NEXSTAR PHARM INC.

XX
 PI Bridonneau P, Gold L, Hicke B, Parma DH;
 XX DR WPI; 1997-07/252/07.
 XX PT Identifying nucleic acid ligands that bind lectin(s) esp.
 PT selectin(s) - by partitioning the ligands from a mixture of nucleic
 acids
 XX PS Claim 48: Page 186: 255pp; English.
 XX CC The invention relates to the identification of nucleic acid ligands to
 CC a lectin using the systematic evolution of ligands by exponential
 CC enrichment (SELEX) method. The sequences AT57963-AT58039 represent RNA
 CC ligands isolated by the method which bind to p-selectin. The p-selectin
 CC ligands were isolated from a DNA template containing 50 random
 CC nucleotides flanked by fixed 5' and 3' sequences (AAT58049), which was
 CC amplified using the primers AAT8050-1. The ligands fall into 5 major
 CC families along with 2 groups of unrelated "orphan" ligands. No binding
 CC affinity of this ligand for p-selectin is given in the specification.
 CC The ligands are especially useful in the treatment of peritoneal
 CC inflammation, diabetes, lymphocyte trafficking disorders,
 CC glomerulonephritis, arthritis, etc.

SQ Sequence 58 BP; 20 A; 15 C; 13 G; 10 U; 0 other;

Query Match	Score	DB	Length	Matches	Best Local Similarity	Pred.	No.	Mismatches	Indels	Gaps
QY	1	ctccaaacttggaaatcaccgtacaca	25	14;	55.2%	1.4e+03	4;	0	0	0
Db	6	cuagagccuucgaaaccuagguaaca	30		56.0%					

RESULT 15

AAA96649
 ID AAA96649 standard; DNA; 21 BP.

XX AC

XX AAA96649;

XX DT

08-FEB-2001 (first entry)

XX DE

XX PCR primer for a cDNA fragment encoding a human Akt3 polypeptide.

XX KW Human; Akt3; apoptotic cell death; apoptotic stimulating kinase 1; ASKL;

XX KW hypoxia; apoptosis; necrosis; myocardial infarction; ischemia;

XX KW reperfusion injury; myocardial ischemia reperfusion injury; stroke;

XX KW liver damage; renal failure; organ transplantation; coronary artery;

XX KW PCR primer; ss.

XX OS Homo sapiens.

XX PN WO20056866-A2.

XX PD 28-SEP-2000.

XX PF 14-MAR-2000; 2000WO-US06574.

XX PR 19-MAR-1999; 99US-0125108.

XX PA (AVET) AVENTIS PHARM PROD INC.

XX PI Guo K, Pagnoni MF, Clark KL, Ivashchenko YD;

XX DR WPI; 2000-638260/61.

XX PT Novel Akt3 nucleic acid and proteins capable of preventing apoptotic
 PT cell death induced by apoptosis stimulating kinase 1 useful for
 PT treating myocardial infarction or ischemia reperfusion injury -
 XX PS Example 1; Page 41; 73pp; English.

XX PCR primers AAA96648-49 were used to amplify cDNA encoding a human Akt3
 CC protein. Expression of Akt3 prevents apoptotic cell death induced by
 CC apoptotic stimulating kinase 1 (ASK1). The Akt3 polypeptide is useful
 CC for inhibiting cell death, preferably in a cardiac myocyte, resulting
 CC from hypoxia, apoptosis or necrosis in a patient suffering from
 CC myocardial infarction or ischemia reperfusion injury. The polypeptide
 CC is also useful for treating myocardial infarction or ischemia
 CC reperfusion injury, where the reperfusion injury is myocardial ischemia
 CC failure, organ transplantation or coronary artery by pass grafting.

SQ Sequence 21 BP; 7 A; 5 C; 5 G; 4 T; 0 other;

Query Match	Score	DB	Length	Matches	Best Local Similarity	Pred.	No.	Mismatches	Indels	Gaps
QY	3	ccaaacttggaaatcaccgtac	22	16;	54.4%	1.5e+03	0;	4	0	0
Db	2	ccaaacttggaaatcaccgtac	21		56.0%					

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